

sub.C1
1 (currently amended).

A vehicle detector and classifier comprising:
at least one electrically conductive loop arranged in a road **having a road surface, wherein said at least one** characterised in that the or each loop is arranged substantially in a plane perpendicular to the road surface, **thereby defining an axis of the loop extending substantially parallel to the road surface.**

2 (currently amended).

A detector according to claim 1, **wherein** characterised in that said plane extends **laterally** across the road **in a direction perpendicular to a direction of travel along the road.**

3 (currently amended).

A detector according to claim 1, **wherein** characterised in that said plane extends parallel to **a longitudinal** the axis of the road, i.e. in the **and parallel to a** direction of travel **along the road.**

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4 (currently amended).

A detector according to claim 1, **wherein** characterised in that **said at least one loop comprises** a plurality of loops are arranged in a line in a single slot cut into the road surface.

5 (currently amended).

A detector according to claim 4, **wherein** characterised in that at least one active electronic component is located in the slot **and** adjacent to **said at least one** each loop.

6 (currently amended).

A detector according to claim 5, **wherein** characterised in that the components are mounted on very small hybrid or thick film circuits at regular intervals, **said circuits comprising one of a small hybrid circuit and a thick film circuit.**

7(currently amended). A detector according to claim 1, wherein the at least one loop is ~~or all of the loops~~, are encapsulated in a semi-rigid enclosure.

8(previously amended). A detector according to claim 1, wherein said at least one ~~each~~ loop ~~is~~, is substantially rectangular as viewed along the axis.

9(currently amended). A detector according to claim 1, wherein said at least one ~~each~~ loop comprises a plurality of turns.

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10 (currently amended). A detector according to claim 1, further comprising including an inductive loop arranged substantially along a ~~in the plane of the road surface~~, thereby defining an axis of the inductive loop extending substantially perpendicular to the road surface.

11(currently amended). A detector according to claim 10, further comprising including means for superposing a result obtained from the at least one loop arranged substantially along ~~in the plane of the road surface~~ and a result obtained from the at least one ~~or each~~ loop arranged substantially in the ~~a~~ plane perpendicular to the road surface, and means for displaying the superposed results as thereby superposed.